

WHAT IS CLAIMED IS:

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1. A transmission type liquid crystal display device including on a transparent substrate a gate wiring, a signal wiring perpendicular to the gate wiring, an auxiliary capacitance wiring that is generally parallel to the gate wiring and perpendicular to the signal wiring, a thin film transistor having either one of a source region and a drain region connected to the signal wiring, and a pixel electrode to which the other one of the source region and the drain region of the thin film transistor is connected via a lead electrode, wherein

the signal wiring, the gate wiring, the auxiliary capacitance wiring and the lead electrode are made of a light shading material,

15 a semiconductor thin film is formed for each pixel electrode below the signal wiring, the gate wiring, the auxiliary capacitance wiring and the lead electrode via an insulating film,

20 a region that belongs to the semiconductor thin film and is located below the signal wiring and below the gate wiring is made to serve as a channel region of the thin film transistor, regions that belong to the semiconductor thin film and are located on both sides of the channel region below the signal wiring are made to serve as a source region and a drain region of the thin film transistor

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respectively, and a region that belongs to the semiconductor thin film and is located below the auxiliary capacitance wiring is made to serve as an auxiliary capacitance electrode region.

- 5     2.            A transmission type liquid crystal display device as claimed in claim 1, wherein

              a jut region of the semiconductor thin film in which juts from the signal wiring, the gate wiring, the auxiliary capacitance wiring and the lead electrode has an  
10     areal ratio of 0.1 or less with respect to an area of an opening through which light is transmitted.

3.            A transmission type liquid crystal display device as claimed in claim 1, further comprising:

              a lower layer light shading film formed below the  
15     semiconductor thin film and on the transparent substrate so as to cover a region that includes at least the channel region of the thin film transistor of the semiconductor thin film.

4.            A transmission type liquid crystal display device  
20     as claimed in claim 3, wherein

              the lower layer light shading film is formed on the transparent substrate so as to cover a region located between the gate wiring and the auxiliary capacitance wiring.

5. A transmission type liquid crystal display device as claimed in claim 1, further comprising:

5 a first contact hole for connecting either one of the source region and the drain region of the semiconductor thin film to the signal wiring, a second contact hole for connecting the other one of the source region and the drain region of the semiconductor thin film to the lead electrode, and a third contact hole for connecting the lead electrode to the pixel electrode,

10 the signal wiring being electrically connected to the pixel electrode via the first contact hole, the source region, the channel region, the drain region, and the auxiliary capacitance electrode region of the semiconductor thin film, the second contact hole, the lead electrode and  
15 the third contact hole.

6. A transmission type liquid crystal display device as claimed in claim 1, wherein

the gate electrode and the auxiliary capacitance wiring are made of a same material.

20 7. A transmission type liquid crystal display device as claimed in claim 1, wherein

the signal wiring and the lead electrode are made of a same material.

8. A transmission type liquid crystal display device  
25 as claimed in claim 1, wherein

the lead electrode is a thin film whose a principal component is Al, and a film layer which contains at least one substance selected from among Ir, Ru, Cr, Co, Ta, Ti, W, Mo, TiW alloy, WN, TiN and a silicide of Ir, Cr, Co, Ta, Ti, W and Mo is laminated on the lead electrode.

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